



# Selection Guide

## Miniature Low Frequency Quartz Crystals

10 kHz to 2 MHz & 10 MHz to 32 MHz

**CX-1 Series**

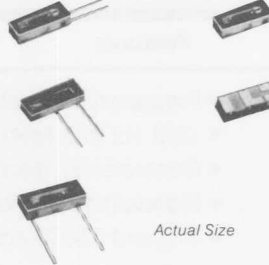


Actual Size

Leaded

Surface Mountable

**CX-2 Series**



Actual Size

Leaded

Surface Mountable

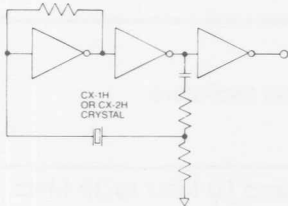
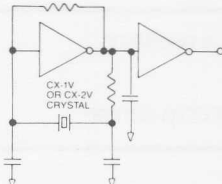
**SX-1 Series**



Actual Size

- High shock resistance
- Excellent aging characteristics
- Ideal for use with microprocessors

- Available without leads for surface mounting
- Military testing available

Series	Oscillator Circuit	Features
H Model	 <p>Series oscillator</p>	<ul style="list-style-type: none"> <li>• Designed for long service/storage life</li> <li>• Fast start up</li> <li>• High reliability</li> </ul>
CX-1H CX-2H <sup>1</sup>		
CX-1H-SM CX-2H-SM <sup>1</sup>		<ul style="list-style-type: none"> <li>• Designed for high temperature surface mounting using solder reflow or wave soldering</li> </ul>
SX-1H		<ul style="list-style-type: none"> <li>• Hermetically-sealed TO-5 package</li> </ul>
V Model	 <p>Pierce oscillator</p>	<ul style="list-style-type: none"> <li>• Designed for lowest possible power consumption</li> <li>• High stability</li> <li>• Ideal for battery-operated applications</li> </ul>
CX-1V CX-2V <sup>1</sup>		
CX-1V-SM CX-2V-SM <sup>1</sup>		<ul style="list-style-type: none"> <li>• Designed for high temperature surface mounting using solder reflow or wave soldering</li> </ul>
SX-1V		<ul style="list-style-type: none"> <li>• Hermetically-sealed TO-5 package</li> </ul>

<sup>1</sup> Not available below 16 kHz or above 2 MHz

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# Selection Guide Miniature Low Frequency Crystal Oscillators

.0006 Hz to 2 MHz & 10 MHz to 32 MHz

- Low power consumption
- Excellent aging characteristics

- High shock resistance
- Military testing available

Series	Features
<b>PXO</b>  Actual Size	<ul style="list-style-type: none"> <li>• Frequency-selectable, dual-output crystal oscillator</li> <li>• .002 Hz to 2 MHz<sup>2</sup></li> <li>• Generates 57 discrete frequencies</li> <li>• Standard 16-pin plastic DIP</li> <li>• TTL and CMOS compatible</li> </ul>
<b>LXO</b>  Actual Size  Surface Mountable	<ul style="list-style-type: none"> <li>• Low power crystal oscillator</li> <li>• 10 kHz to 2 MHz<sup>1/2</sup></li> <li>• High accuracy</li> <li>• Low aging</li> <li>• CMOS compatible</li> <li>• Resistance-welded 4-pin metal package. Pins on 14-pin DIP centers</li> </ul>
<b>REAL TIME CLOCK</b>  Actual Size	<ul style="list-style-type: none"> <li>• Built-in crystal oscillator               <ul style="list-style-type: none"> <li>• eliminates need for external components</li> <li>• eliminates design time</li> <li>• reduces board space</li> </ul> </li> <li>• Low current consumption</li> </ul>
<b>TO-5</b>  Actual Size	<ul style="list-style-type: none"> <li>• Miniature TO-5 crystal oscillators</li> </ul>
<b>SQXO-2</b>	<ul style="list-style-type: none"> <li>• 10 kHz to 2 MHz and 10 MHz to 32 MHz</li> <li>• TTL and CMOS compatible</li> </ul>
<b>LQXO-4</b>	<ul style="list-style-type: none"> <li>• Low power crystal oscillator</li> <li>• 10 kHz to 2 MHz and 10 MHz to 32 MHz</li> <li>• CMOS compatible</li> </ul>
<b>DQXO-1,2,3</b>	<ul style="list-style-type: none"> <li>• Low frequency crystal oscillator/timer</li> <li>• .0006 Hz to 10 kHz</li> <li>• Multiple outputs available</li> <li>• CMOS compatible</li> </ul>
<b>SQXO-2-SM</b> <b>DQXO-3-SM</b>  Actual Size	<ul style="list-style-type: none"> <li>• Surface mountable crystal oscillator</li> <li>• 1 Hz to 2 MHz<sup>1/2</sup></li> <li>• Standard 24-pin leadless chip carrier</li> </ul>
<b>FLATPACK</b>  Actual Size	<ul style="list-style-type: none"> <li>• 1 Hz to 2 MHz in 1/4" x 3/8" 14-pin package</li> <li>• 1 pulse per day to 1 Hz in 3/8" x 3/8" 14-pin package</li> </ul>

<sup>1</sup> Lower frequencies available, contact factory  
<sup>2</sup> Higher frequencies available, contact factory

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